



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

The Garland Company, Inc.
3800 East 91st Street
Cleveland, OH 44105-2197

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: "R-MER Span" 22 Ga. (0.03" min.) Structural Steel Roof Panel (12" to 16" wide)

APPROVAL DOCUMENT: Drawing No. 1959, titled " R-MER Span, 22 Gage Structural Steel Roof Panel ", sheets 1 through 3 of 3, prepared by Encon Technology, Inc., dated May 08, 2014, signed and sealed by Bala Sockalingam, P.E., on May 09, 2014, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises & renews NOA # 08-1224.13 and consists of this page 1, evidence submitted pages E-1 & E-2 As well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.



Helmy A. Makar
05/29/2014

NOA No. 13-1125.10
Expiration Date: 04/22/2019
Approval Date: 05/29/2014
Page 1

The Garland Company, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 04-0723.07

A. DRAWINGS

1. *Drawing No. 1319, titled "R-MER Span, 22 Gage Structural Steel Roof Panel", sheets 1 through 3 of 3, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E. on August 23, 2004*

B. TESTS

1. *Test report on wind and wind driven rain resistance test per TAS 100-95 on Innovative Metals Series 300 Roof Panel by PRI Asphalt Technologies, Report No. IMC-002-02-01, dated June 20, 2003, signed and sealed by Charles L. Thomas, P.E.*
2. *Test report on Uniform Static Air Pressure Test per ASTM 1592-95 on Innovative Metals Series 300 Roof Panel, prepared by Hurricane Test Laboratory, Inc., Report No. 0331-0501-03, dated June 18, 2003, signed and sealed by Vinu J. Abreham, P.E.*
3. *Test report on Accelerated Weathering Testing of Coating 2000 hours per ASTM G23-81, prepared by The Valspar Corporatio.*
4. *Test report on Salt Spray Testing of Coating 1000 hours per ASTM B117-95, prepared by The Valspar Corporatio.*
5. *Susceptibility to leakage test in accordance with Protocol TAS 114 Appendix G, prepared by PRI Asphalt Technologies, Report No. IMC-003-02-01, dated June 20, 2003, signed and sealed by Charles L. Thomas, P.E.*

C. CALCULATIONS

1. *Calculations titled " Innovative Metals Series 300 Roof Panel Calculations " , 10 pages, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E. on August 04, 2003.*
2. *Calculations titled "Innovative Metals Series 300 Roof Panel Calculations" , 6 pages, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E. on March 24, 2004*

D. QUALITY ASSURANCE

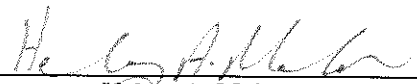
1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *Tensile test, report # 3FM-545, dated June 24, 2003, by QC Metallurgical, Inc., signed and sealed by Frank E. Grate, Jr., P.E.*

F. OTHERS

1. *This approval is based on a Private Labeling Agreement with Innovative Metals Corporation holder of NOA #03-0811.01.*



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 13-1125.10
Expiration Date: 04/22/2019
Approval Date: 05/29/2014

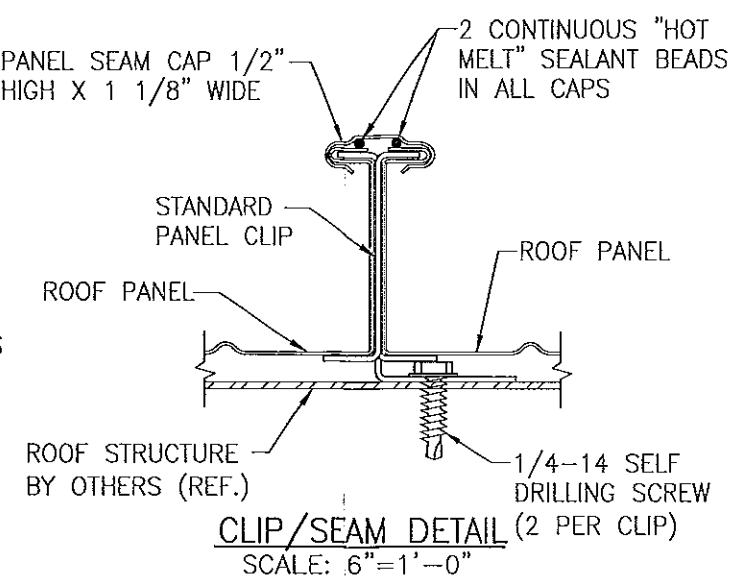
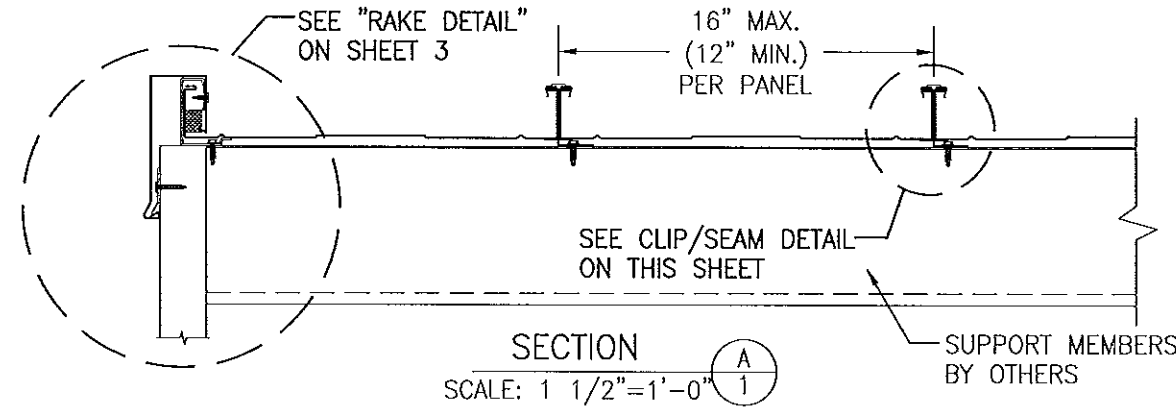
The Garland Company, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

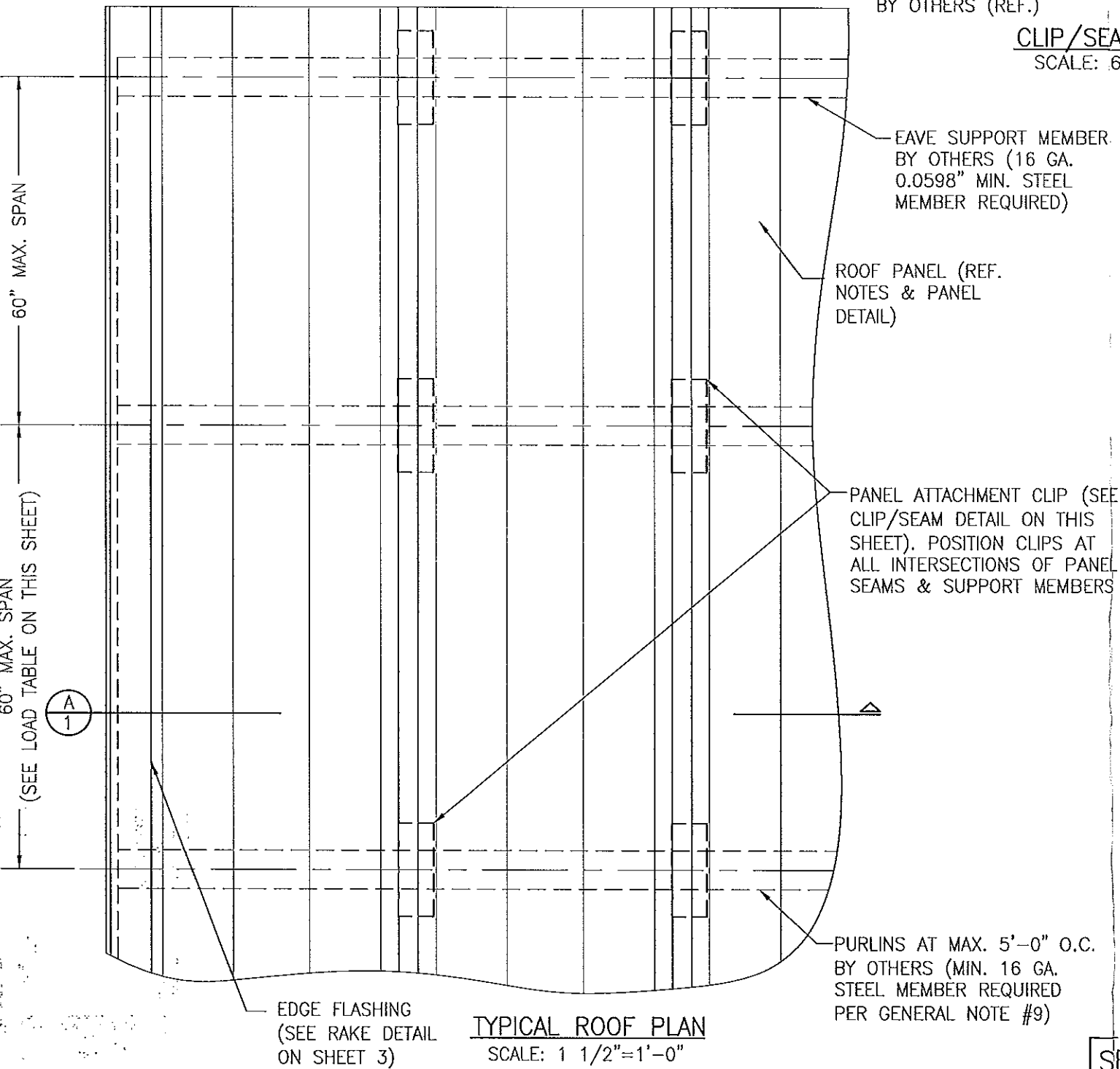
- 2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 08-1224.13**
 - A. DRAWINGS**
 1. *None.*
 - B. TESTS**
 1. *None.*
 - C. CALCULATIONS**
 1. *None.*
 - D. QUALITY ASSURANCE**
 1. *By Miami-Dade County Building Code Compliance Office.*
 - E. MATERIAL CERTIFICATIONS**
 1. *None.*
- 3. NEW EVIDENCE SUBMITTED**
 - A. DRAWINGS**
 1. *Drawing No. 1959, titled " R-MER Span, 22 Gage Structural Steel Roof Panel ", sheets 1 through 3 of 3, prepared by Encon Technology, Inc., dated May 08, 2014, signed and sealed by Bala Sockalingam, P.E., on May 09, 2014.*
 - B. TESTS**
 1. *None.*
 - C. CALCULATIONS**
 1. *None.*
 - D. QUALITY ASSURANCE**
 1. *By Miami-Dade County Department of Regulatory and Economic Resources.*
 - E. MATERIAL CERTIFICATIONS**
 1. *None.*
 - F. OTHERS**
 1. *FBC, 2010 Edition Compliance Letter, dated May 09, 2014, issued by Bala Sockalingam, P.E., signed and sealed by Bala Sockalingam, P.E., on May 09, 2014.*



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 13-1125.10
Expiration Date: 04/22/2019
Approval Date: 05/29/2014



- GENERAL NOTES:**
1. THIS STRUCTURAL ROOF PANEL SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (F.B.C.).
 2. ROOF PANELS ARE FABRICATED FROM A MAX. 21 13/16" WIDE COIL & SHALL BE 22 GA. (t = 0.03") ASTM 792 GRADE D STEEL WITH A KYNAR 500 COATING APPLIED. EFFECTIVE COVERING WIDTH OF PANEL = MAX. 16".
 3. THE ROOF PANELS SHALL BE INSTALLED OVER ROOF STRUCTURE AS SPECIFIED ON THESE DRAWINGS.
 4. PANEL END OVERLAPS MAY OCCUR WITHIN 6" OF CENTERLINE OF SUPPORTING PURLIN PROVIDING THE END LAPS ARE CONSTRUCTED, SUPPORTED & SEALED PER THE END LAP DETAIL ON SHEET 3.
 5. REQUIRED DESIGN WIND LOADS SHALL BE DETERMINED FOR EACH PROJECT. THIS PANEL SYSTEM MAY NOT BE INSTALLED WHEN THE REQUIRED DESIGN WIND LOADS ARE GREATER THAN THE ALLOWABLE WIND LOADS SPECIFIED ON THIS DRAWING.
 6. THIS ROOFING PANEL SYSTEM HAS BEEN TESTED IN ACCORDANCE WITH FLORIDA BUILDING CODE:
 - * ACCELERATED TESTING OF COATING PER ASTM G23
 - * SALT SPRAY TESTING PER ASTM B117
 - * UPLIFT RESISTANCE TEST PER TAS-125 & ASTM E1592
 - * WIND DRIVEN RAIN & STANDING WATER TESTS PER TAS-100 & TAS-114
 - * TENSILE TESTS PER ASTM E8
 7. ROOF PANEL MANUFACTURER'S PERMANENT LABEL SHALL BE PLACED AT THE END OF EACH PANEL RUN AND SHALL READ: THE GARLAND COMPANY INC CLEVELAND, OHIO MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED
 8. ALL SCREWS SHALL BE CORROSION RESISTANT SELF DRILLING SCREWS.
 9. THE SUPPORTING STRUCTURE, OVER WHICH THE PANELS ARE TO BE INSTALLED, MUST BE MINIMUM 16 GAGE (MIN. 0.0598") STEEL WITH MIN. Fy = 50 KSI.
 10. THESE ROOF PANELS SHALL NOT BE CONSIDERED TO OR BE USED FOR TRANSFER OF DIAPHRAGM ACTION OF ROOF TO SUPPORTING STRUCTURE.
 11. ROOF PANEL CAP IS FABRICATED FROM A 2" WIDE COIL OF 22 GAGE (t = 0.03") ASTM 792 GRADE D STEEL & HAS A KYNAR 500 COATING.



PURLIN SPACING & LOAD TABLE								
PANEL SUPPORT CONDITION	MAXIMUM ALLOWABLE UPLIFT PRESSURE (PSF)							
	L=18"	L=24"	L=30"	L=36"	L=42"	L=48"	L=54"	L=60"
$\Delta \quad L \quad \Delta$	200.0	200.0	153.7	106.7	78.4	60.0	43.7	31.9
$\Delta \quad L \quad \Delta \quad L \quad \Delta$	176.0	132.0	105.6	88.0	75.4	66.0	58.7	48.0
$\Delta \quad L \quad \Delta \quad L \quad \Delta \quad L \quad \Delta$	200.0	150.0	120.0	100.0	85.7	75.0	66.7	60.0
$\Delta \quad L \quad \Delta \quad L \quad \Delta \quad L \quad \Delta \quad L \quad \Delta$	192.4	144.3	115.4	96.2	82.5	72.2	64.1	56.1
	MAXIMUM ALLOWABLE POSITIVE PRESSURE (PSF)							
	L=18"	L=24"	L=30"	L=36"	L=42"	L=48"	L=54"	L=60"
$\Delta \quad L \quad \Delta$	200.0	200.0	153.7	106.7	78.4	60.0	43.7	31.9
$\Delta \quad L \quad \Delta \quad L \quad \Delta$	176.0	132.0	105.6	88.0	75.4	66.0	58.7	48.0
$\Delta \quad L \quad \Delta \quad L \quad \Delta \quad L \quad \Delta$	200.0	150.0	120.0	100.0	85.7	75.0	66.7	60.0
$\Delta \quad L \quad \Delta \quad L \quad \Delta \quad L \quad \Delta \quad L \quad \Delta$	192.4	144.3	115.4	96.2	82.5	72.2	64.1	56.1

PRODUCT APPROVAL IS LIMITED TO THE ROOF PANEL & ITS CONNECTING CLIPS. THE STRUCTURAL ADEQUACY OF ALL OTHER STRUCTURAL ITEMS (BEAMS, COLUMNS, PURLINS, FACIA SUPPORTS, CONNECTIONS OF STRUCTURE, ETC. SHALL BE VERIFIED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT. THE METAL ROOF PANELS SHALL NOT BE DESIGNED TO ACT AS A DIAPHRAGM.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 13-1125.10
Expiration Date 04/22/2019
By: [Signature]
Miami Dade Product Control

DRAWN BY: B.S.		CHECKED BY:	
PLOT:		DATE: 5/6/2014	
DATE	BY	REVISION DESCRIPTION	NO.

DRAWING TITLE
R-MER SPAN 22 GAGE STRUCTURAL STEEL ROOF PANEL

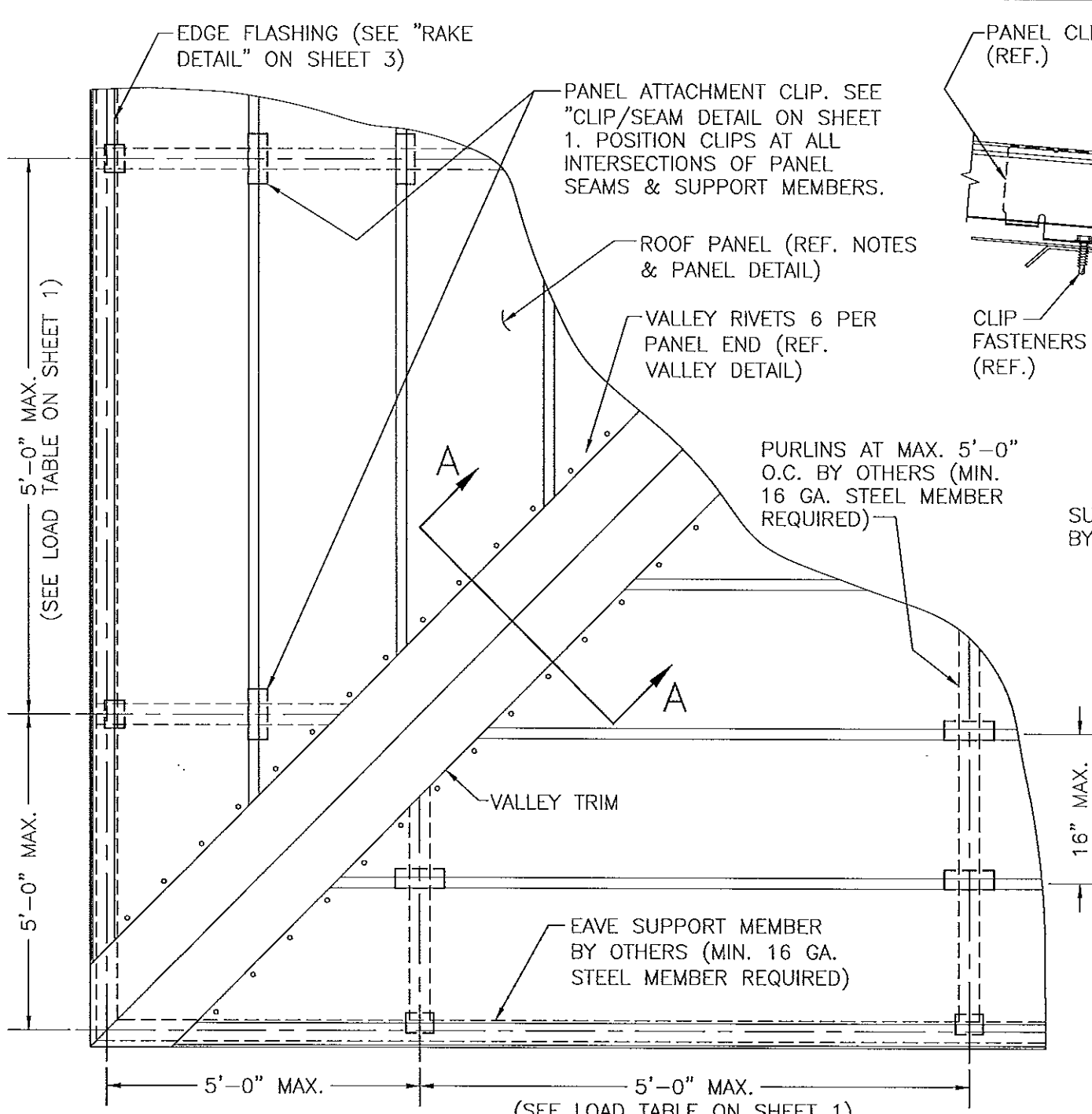
CONSULTANTS
BALA SOCKALINGAM, PH.D., P.E.

1216 N LANSING AVE, SUITE C
TULSA, OK 74106
PHONE: 918-492-5992 FAX: 866-366-1543

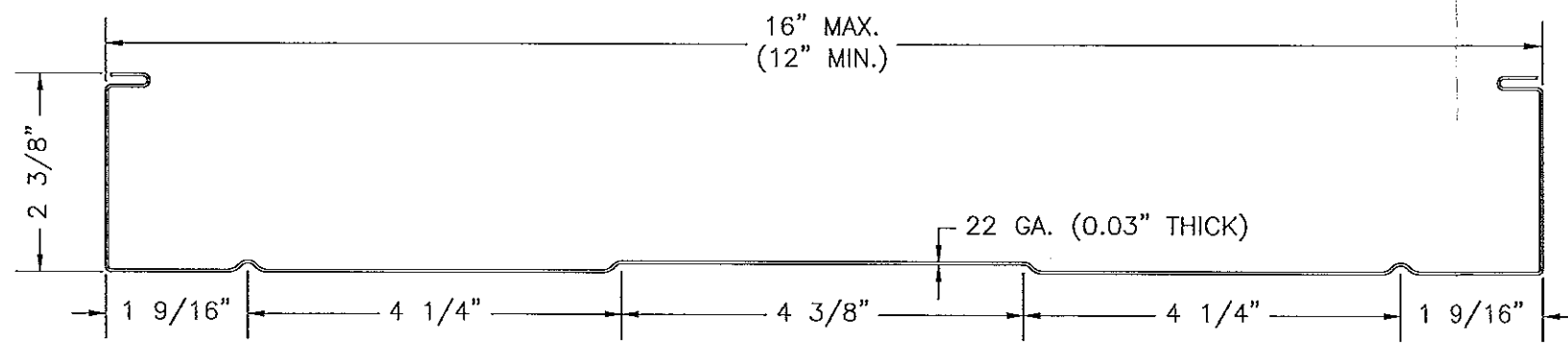
MANUFACTURER
THE GARLAND COMPANY INC
3800 EAST 91ST STREET
CLEVELAND, OH 44105-2197
800-321-9336

CERTIFICATION
BALA SOCKALINGAM
P.E. NO. 62240
FLORIDA PROFESSIONAL ENGINEER

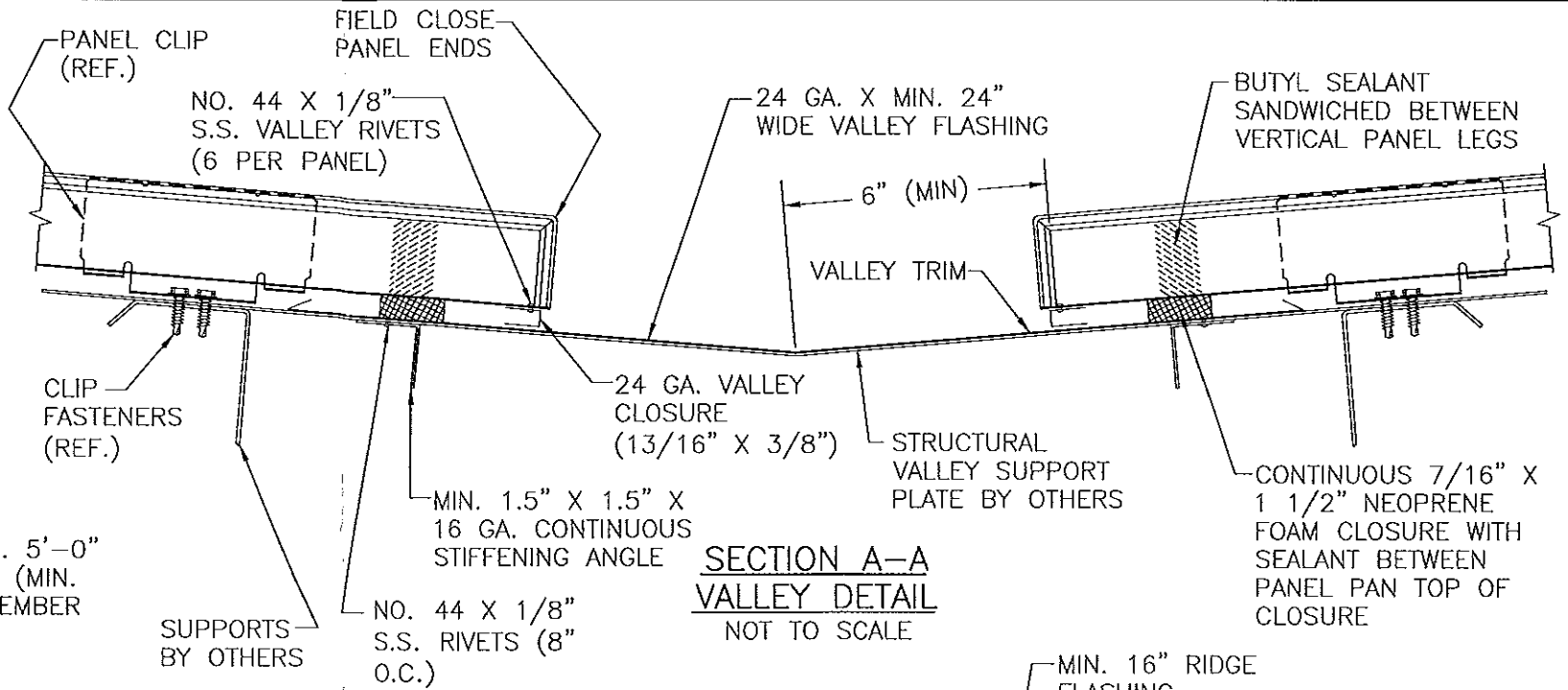
SHEET NO: 1 OF 3



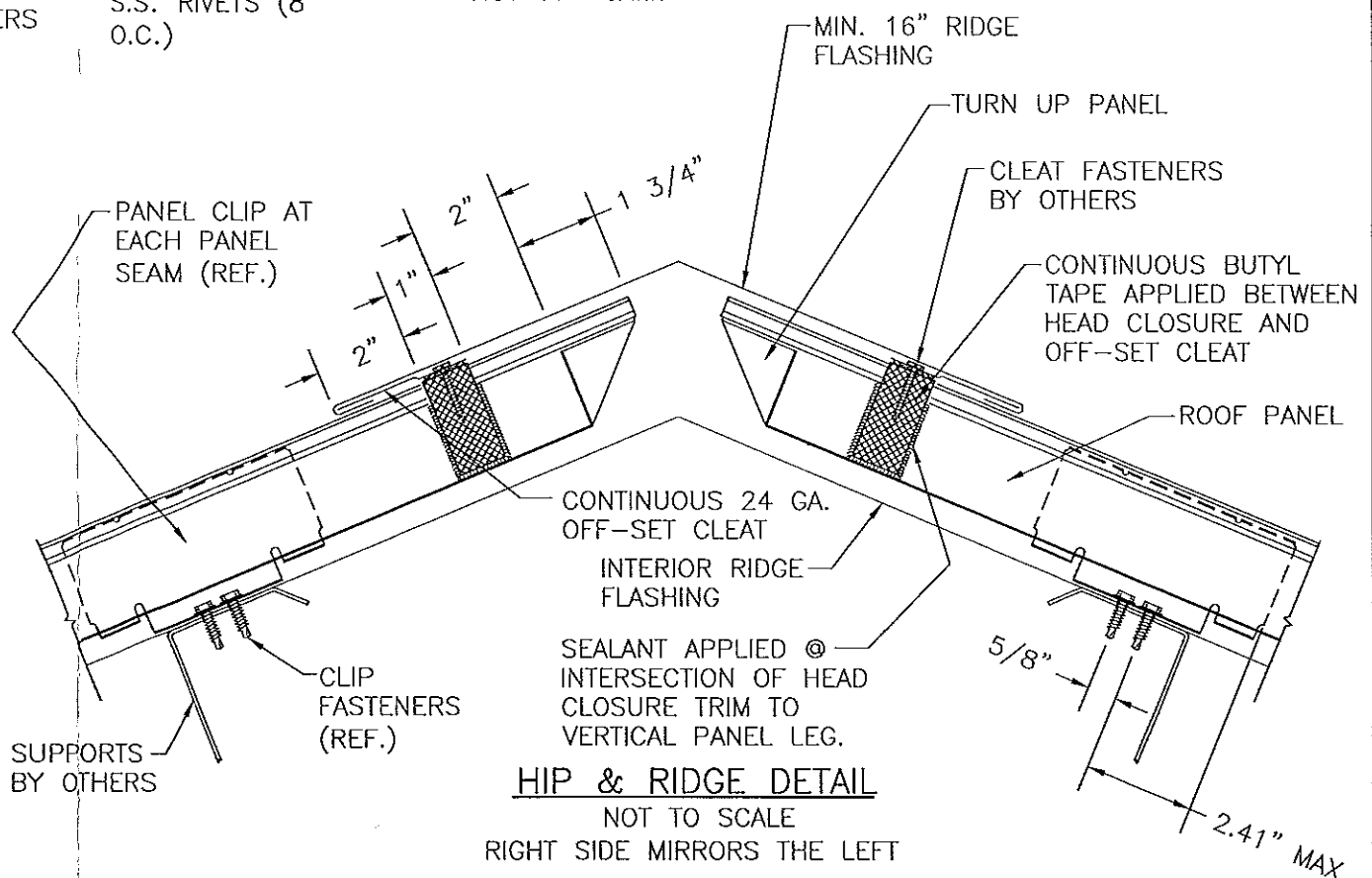
TYP. VALLEY PLAN VIEW
SCALE: 3/4"=1'-0"



PANEL DETAIL
SCALE: 6"=1'-0"



SECTION A-A VALLEY DETAIL
NOT TO SCALE

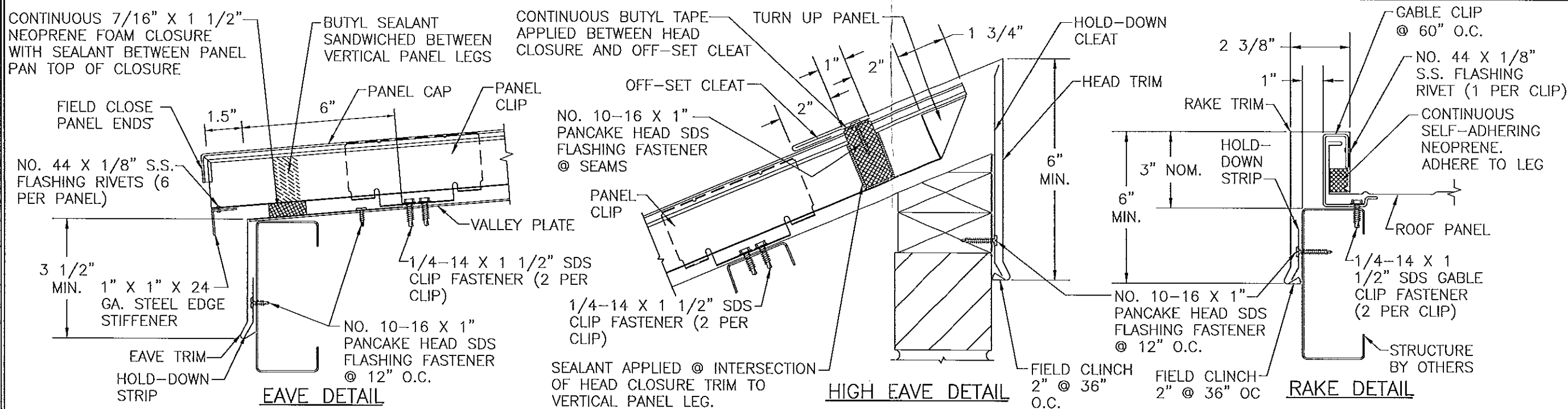
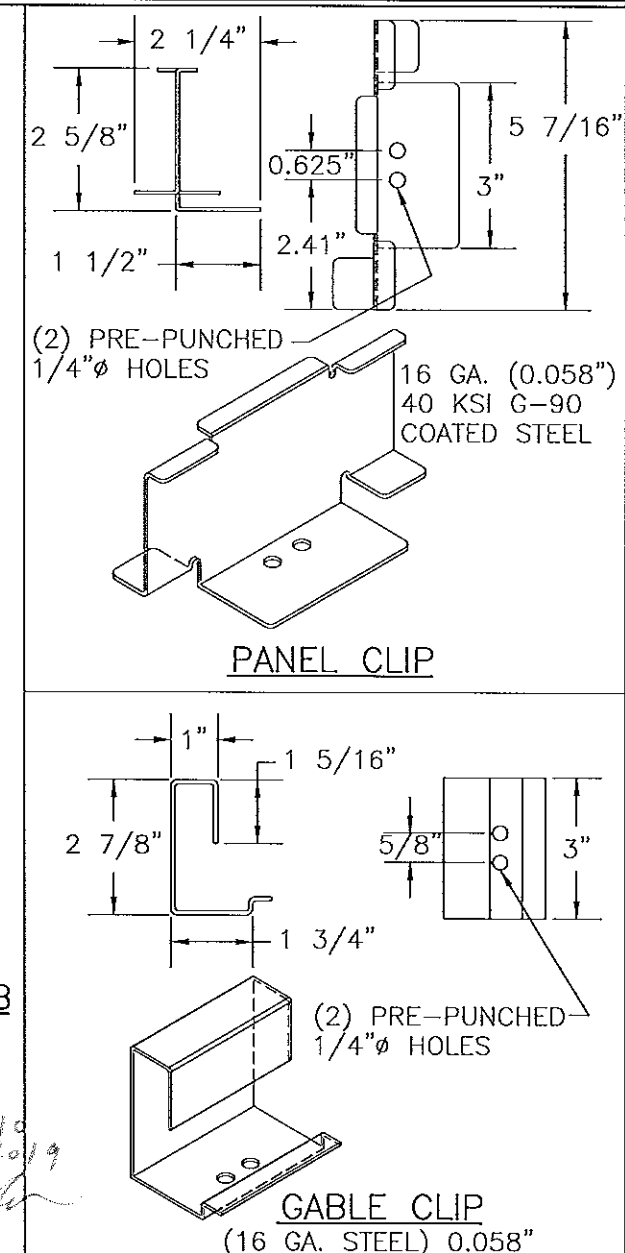
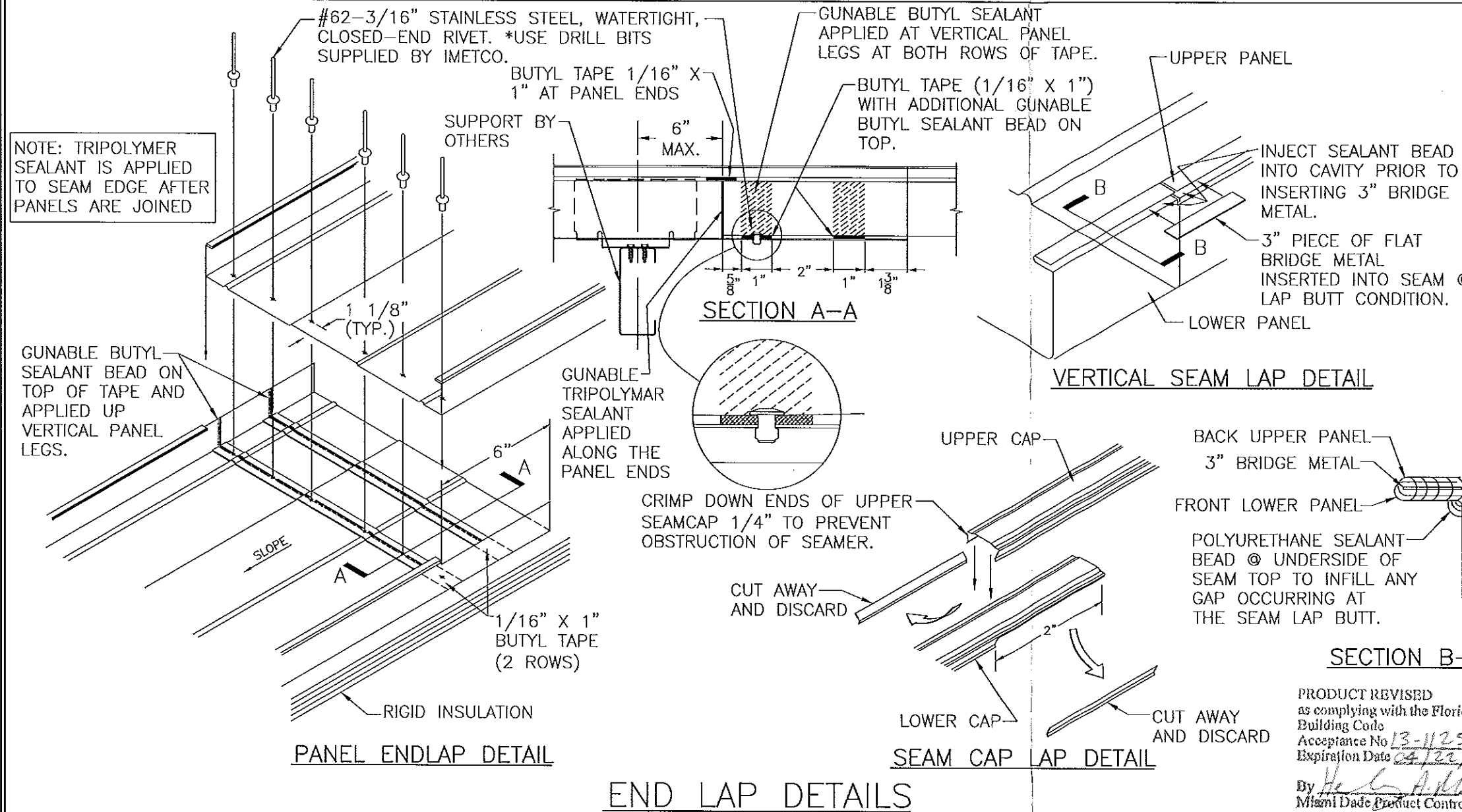


HIP & RIDGE DETAIL
NOT TO SCALE
RIGHT SIDE MIRRORS THE LEFT

NOTE: ALL FLASHING MATERIAL NOT CALLED OUT WITH A SPECIFIC GAGE THICKNESS SHALL BE MIN. 24 GAGE.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 13-1125.10
Expiration Date 04/22/2019
By *H. G. Allen*
Miami Data Product Control

DRAWN BY: B.S.		CHECKED BY:	
PLOT:		DATE: 5/8/2014	
NO.	REVISION	DESCRIPTION	DATE
<p>DRAWING TITLE: R-MER SPAN 22 GAGE STRUCTURAL STEEL ROOF PANEL</p> <p>MANUFACTURER: THE GARLAND COMPANY INC 3800 EAST 91ST STREET CLEVELAND, OH 44105-2197 800-321-9336</p> <p>CONSULTANTS: BALA SOCKALINGAM, P.H.D., P.E.</p>			
<p>STATE OF FLORIDA PROFESSIONAL ENGINEER BALA SOCKALINGAM, P.E. No 62240 No 62240</p>			
DRAWING NO. 1959		REV.	
SHEET NO. 2		OF 3	



DRAWN BY: B.S.	CHECKED BY:
PLOT:	DATE: 5/8/2014
DATE	
BY	
REVISION DESCRIPTION	
NO.	

DRAWING TITLE R-MER SPAN 22 GAGE STRUCTURAL STEEL ROOF PANEL	MANUFACTURER THE GARLAND COMPANY INC 3800 EAST 91ST STREET CLEVELAND, OH 44105-2197 800-321-9336
CONSULTANTS B. LA. SOCKALINGAM, PH.D., P.E.	STATE OF FLORIDA PROFESSIONAL ENGINEER No 62240 B. LA. SOCKALINGAM, P.E. No. 62240
DRAWING NO. 1959	REV. 3 OF 3